

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE041116\
 Data File : BE091636.D
 Acq On : 11 Apr 2016 19:56
 Operator : UM/SJ
 Sample : H2294-02
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-160405

Quant Time: Apr 12 01:48:21 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE040816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 08 16:48:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.80	152	37815	5.00	ng	-0.02
7) Naphthalene-d8	10.59	136	180850	5.00	ng	0.00
13) Acenaphthene-d10	14.42	164	108956	5.00	ng	0.00
19) Phenanthrene-d10	17.16	188	275672	5.00	ng	0.00
26) Chrysene-d12	21.31	240	350588	5.00	ng	0.00
35) Perylene-d12	23.76	264	292463	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	18043	2.00	ng	0.00
5) Phenol-d6	6.97	99	13341	1.11	ng	0.00
8) Nitrobenzene-d5	8.96	82	32833	3.12	ng	0.00
14) 2,4,6-Tribromophenol	15.90	330	24632	6.23	ng	-0.01
15) 2-Fluorobiphenyl	13.05	172	112651	3.72	ng	0.00
29) Terphenyl-d14	19.76	244	205278	4.69	ng	0.00

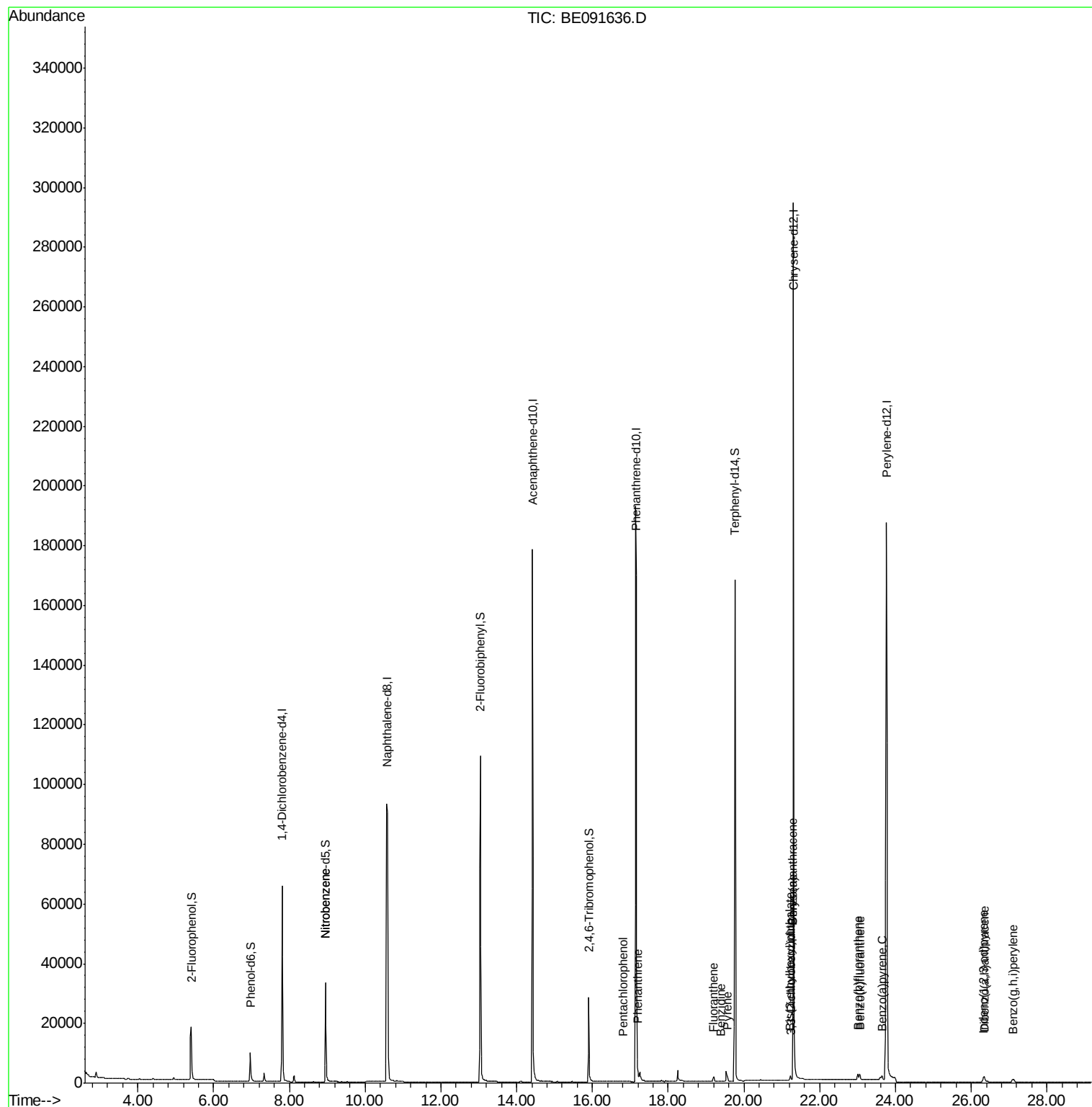
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.35	88	273	Below Cal	#	61
9) Nitrobenzene	8.96	77	121	0.18 ng	#	40
22) Pentachlorophenol	16.81	266	267	0.27 ng		94
23) Phenanthrene	17.19	178	1701	0.03 ng		96
25) Fluoranthene	19.21	202	2074	0.03 ng		96
27) Benzidine	19.40	184	372	0.34 ng	#	29
28) Pyrene	19.55	202	2159	0.03 ng		97
30) Benzo(a)anthracene	21.29	228	7324	0.09 ng		97
31) 3,3'-Dichlorobenzidine	21.24	252	433	0.17 ng	#	78
32) Chrysene	21.29	228	7420	0.10 ng		97
33) Bis(2-ethylhexyl)phthalate	21.22	149	2014	0.30 ng	#	85
34) Indeno(1,2,3-cd)pyrene	26.32	276	3129	0.04 ng		97
36) Benzo(b)fluoranthene	23.01	252	3122	0.05 ng	#	78
37) Benzo(k)fluoranthene	23.06	252	2743	0.04 ng	#	81
38) Benzo(a)pyrene	23.65	252	1959	0.03 ng	#	64
39) Dibenzo(a,h)anthracene	26.35	278	2736	0.04 ng	#	88
40) Benzo(g,h,i)perylene	27.10	276	2807	0.04 ng	#	89

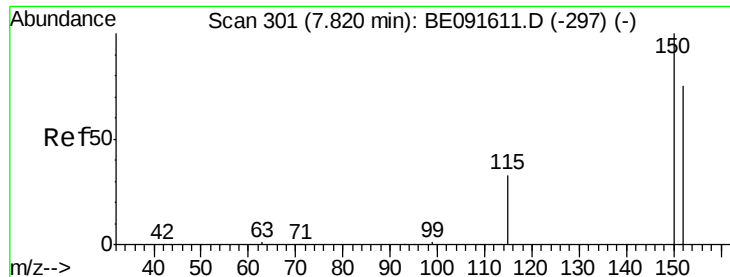
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.80 min Scan# 300

Delta R.T. -0.02 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405

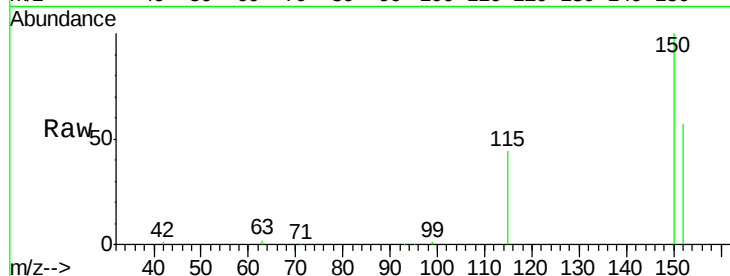
Tgt Ion:152 Resp: 37815

Ion Ratio Lower Upper

152 100

150 176.2 122.6 183.8

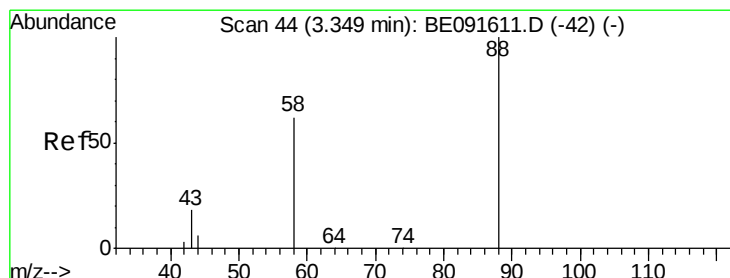
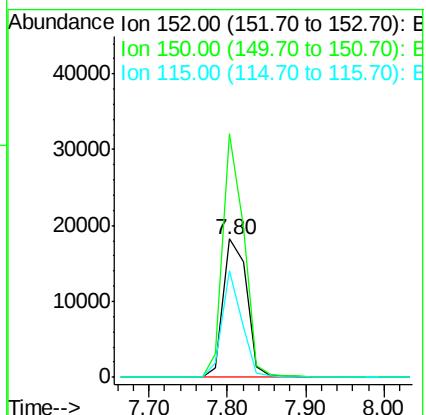
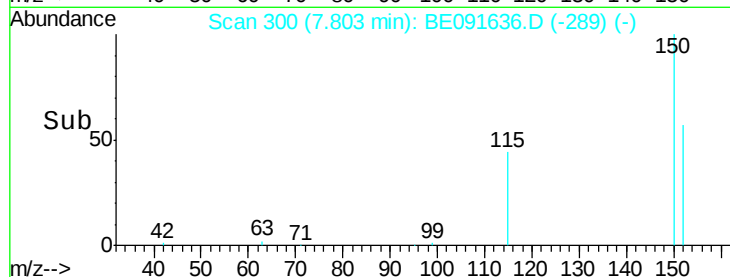
115 76.9 52.8 79.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: Below Cal

RT: 3.35 min Scan# 44

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

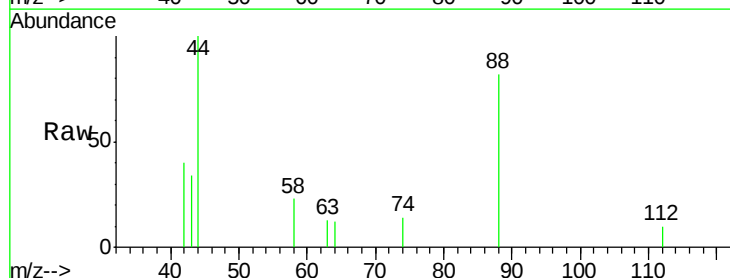
Tgt Ion: 88 Resp: 273

Ion Ratio Lower Upper

88 100

58 36.6 65.8 98.6#

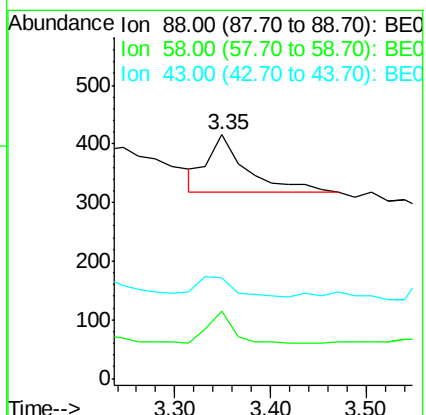
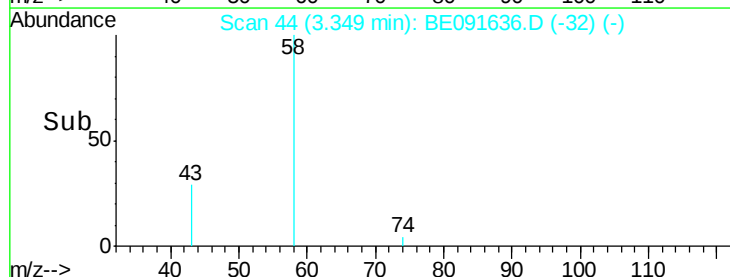
43 36.3 25.3 37.9

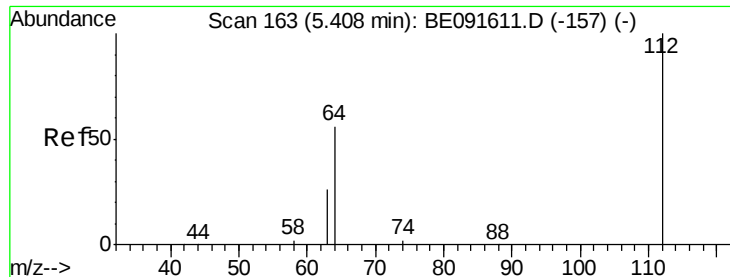


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 2.00 ng

RT: 5.41 min Scan# 163

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405

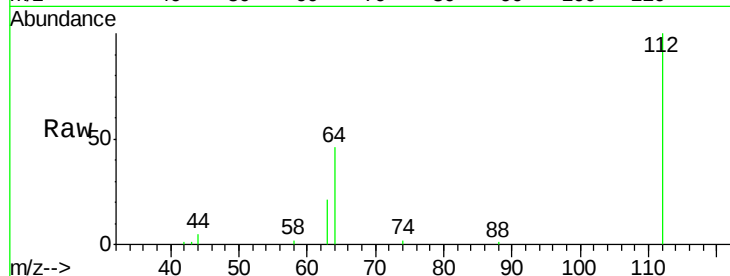
Tgt Ion: 112 Resp: 18043

Ion Ratio Lower Upper

112 100

64 68.2 30.9 46.3#

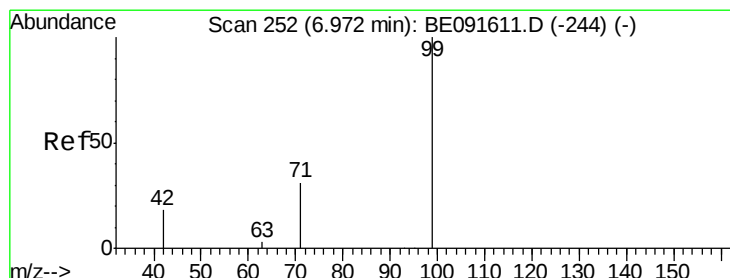
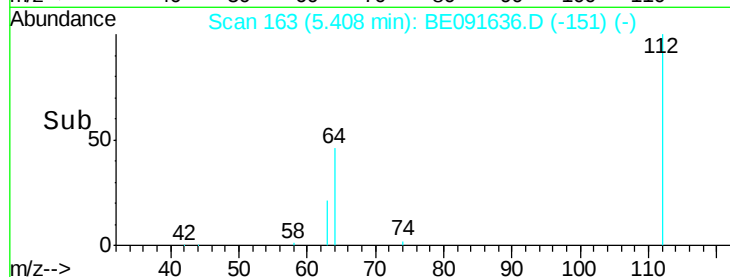
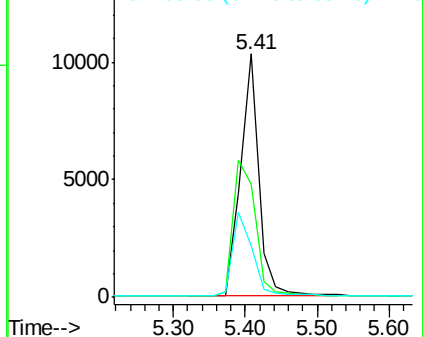
63 36.9 16.7 25.1#



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 1.11 ng

RT: 6.97 min Scan# 252

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

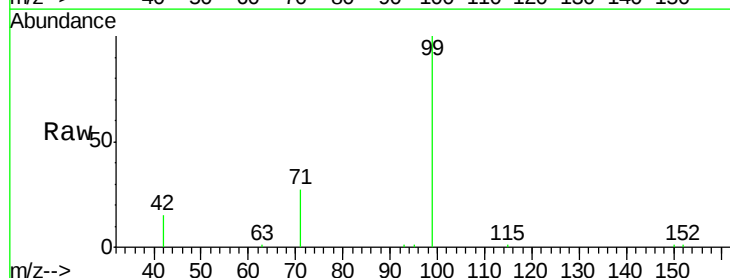
Tgt Ion: 99 Resp: 13341

Ion Ratio Lower Upper

99 100

42 25.8 16.2 24.2#

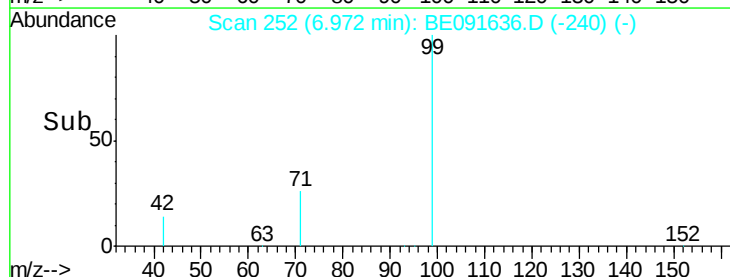
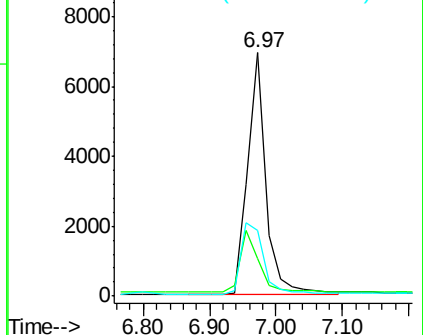
71 36.0 29.0 43.4

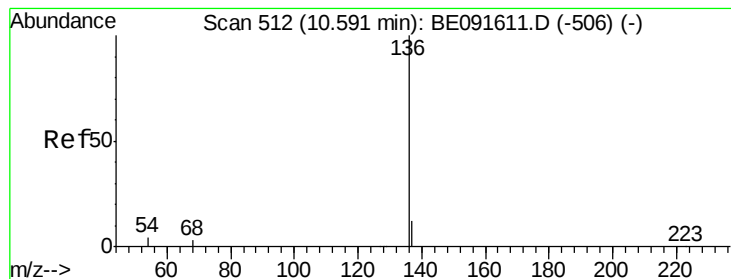


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

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OUTFALL001-160405

Tgt Ion: 136 Resp: 180850

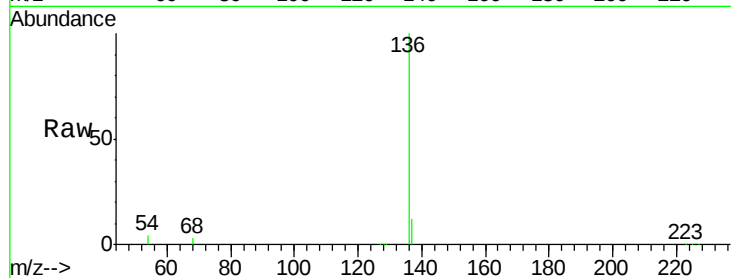
Ion Ratio Lower Upper

136 100

137 11.9 8.9 13.3

54 4.0 8.2 12.4#

68 3.4 6.2 9.4#

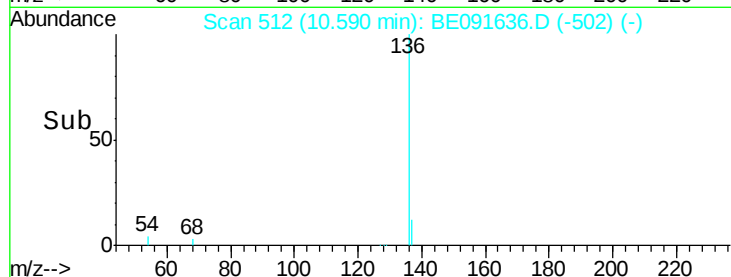


Abundance Ion 136.00 (135.70 to 136.70): E

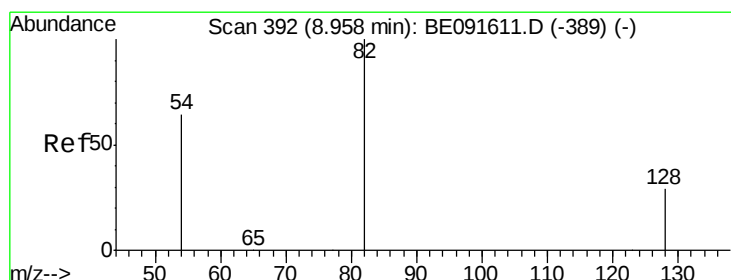
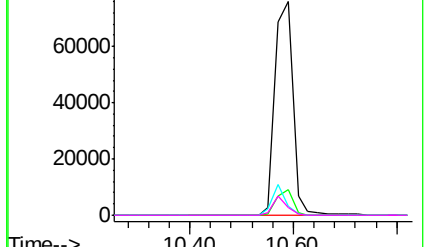
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->



#8

Nitrobenzene-d5

Concen: 3.12 ng

RT: 8.96 min Scan# 392

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

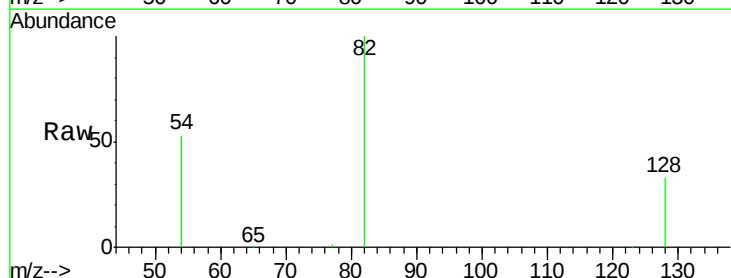
Tgt Ion: 82 Resp: 32833

Ion Ratio Lower Upper

82 100

128 33.0 25.4 38.0

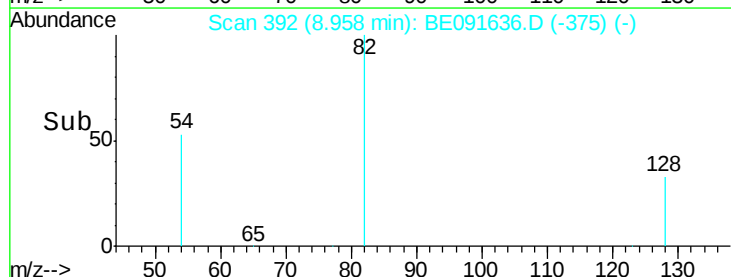
54 53.1 48.4 72.6



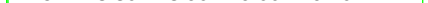
Abundance Ion 82.00 (81.70 to 82.70): BE0

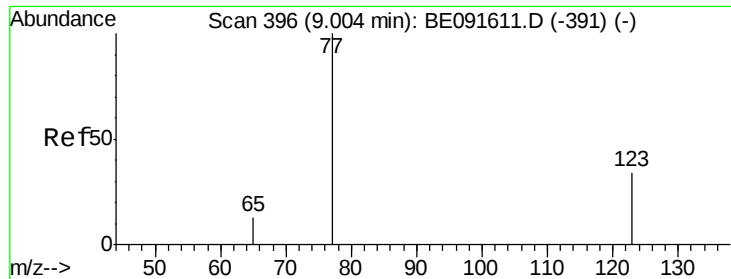
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time-->





#9

Nitrobenzene

Concen: 0.18 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.05 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405

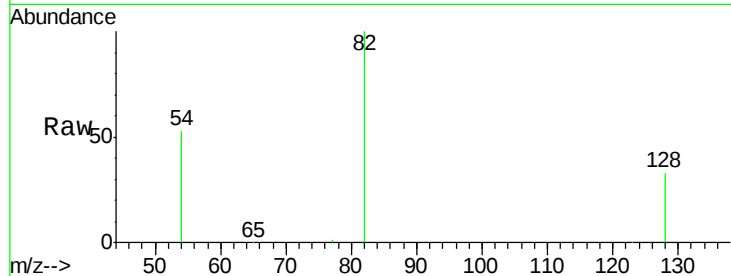
Tgt Ion: 77 Resp: 121

Ion Ratio Lower Upper

77 100

123 0.0 26.9 40.3#

65 35.5 9.4 14.2#

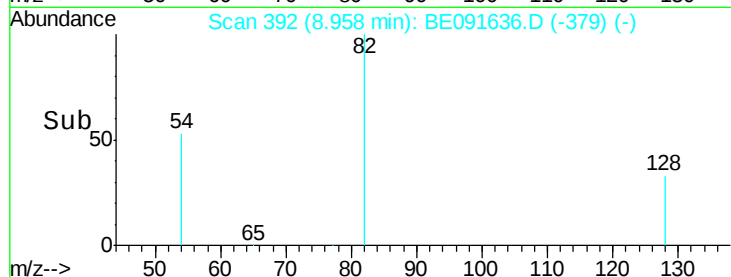


Abundance Ion 77.00 (76.70 to 77.70): BE091611.D (-391) (-)

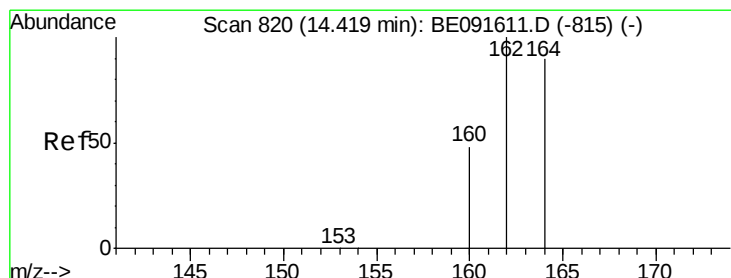
Ion 123.00 (122.70 to 123.70): BE091611.D (-391) (-)

Ion 65.00 (64.70 to 65.70): BE091611.D (-391) (-)

Time-->



Time-->



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

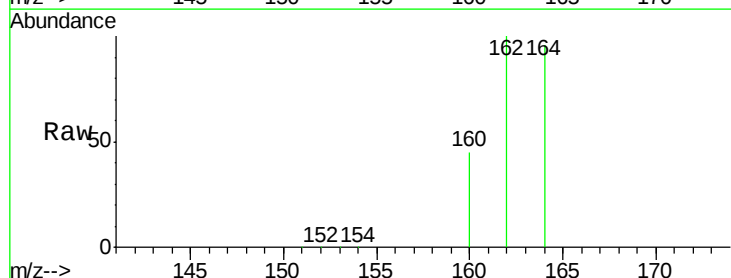
Tgt Ion: 164 Resp: 108956

Ion Ratio Lower Upper

164 100

162 104.7 85.3 127.9

160 47.4 46.2 69.2

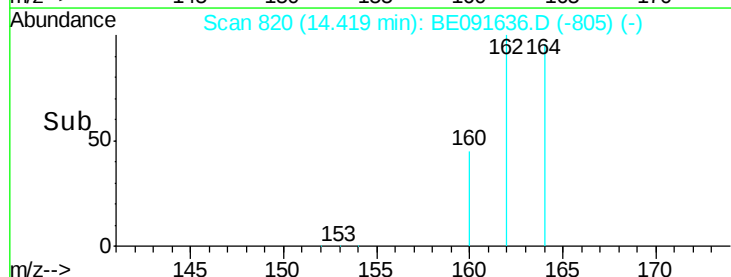


Abundance Ion 164.00 (163.70 to 164.70): BE091611.D (-815) (-)

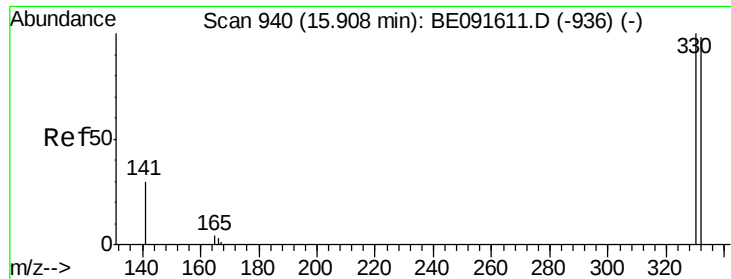
Ion 162.00 (161.70 to 162.70): BE091611.D (-815) (-)

Ion 160.00 (159.70 to 160.70): BE091611.D (-815) (-)

Time-->



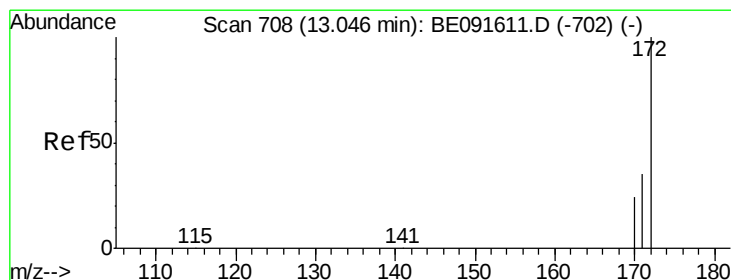
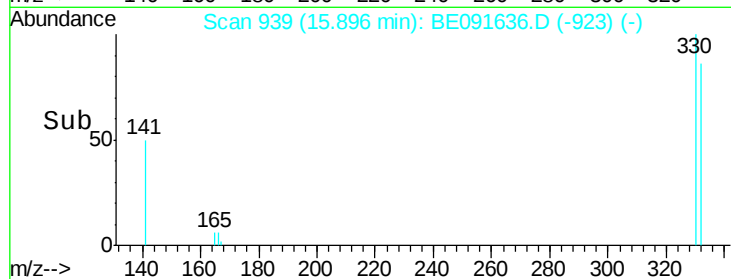
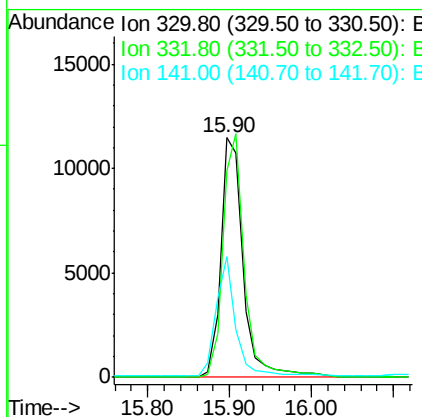
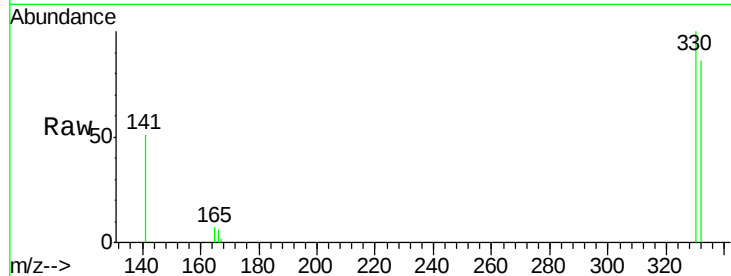
Time-->



#14
 2,4,6-Tribromophenol
 Concen: 6.23 ng
 RT: 15.90 min Scan# 939
 Delta R.T. -0.01 min
 Lab File: BE091636.D
 Acq: 11 Apr 2016 19:56

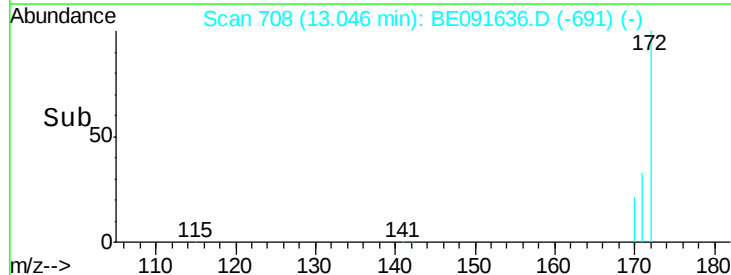
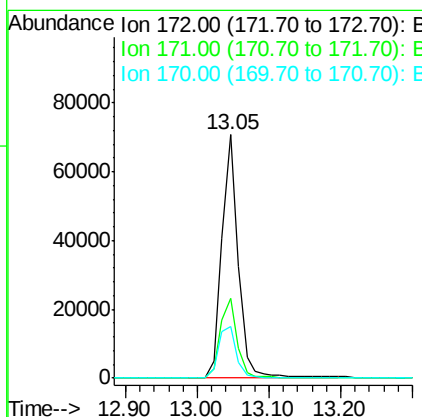
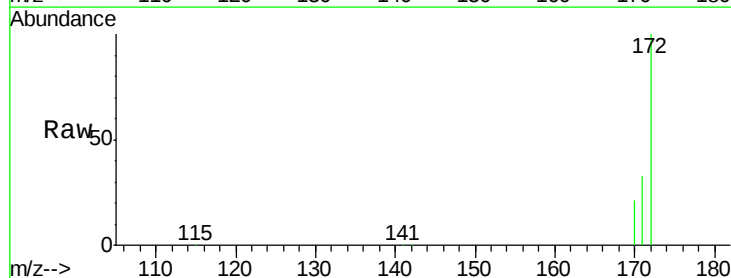
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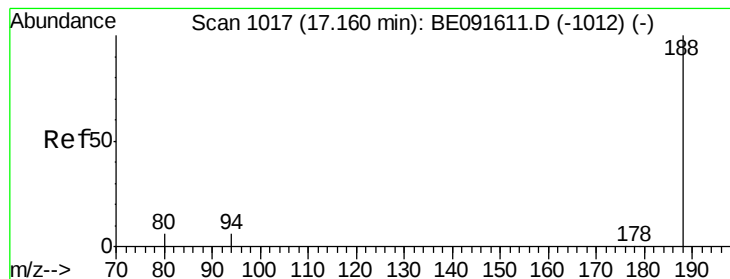
Tgt Ion:330 Resp: 24632
 Ion Ratio Lower Upper
 330 100
 332 96.9 79.1 118.7
 141 43.2 125.4 188.0#



#15
 2-Fluorobiphenyl
 Concen: 3.72 ng
 RT: 13.05 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: BE091636.D
 Acq: 11 Apr 2016 19:56

Tgt Ion:172 Resp: 112651
 Ion Ratio Lower Upper
 172 100
 171 33.0 28.8 43.2
 170 21.2 19.3 28.9





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.16 min Scan# 1017

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405

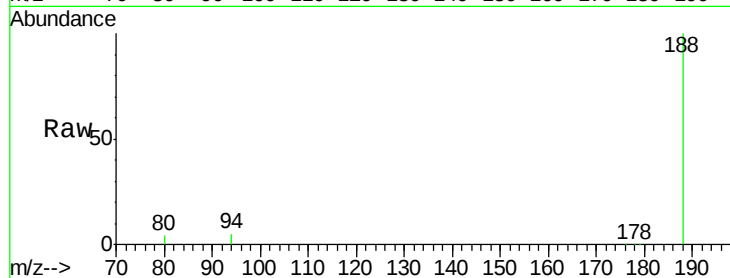
Tgt Ion:188 Resp: 275672

Ion Ratio Lower Upper

188 100

94 4.7 8.7 13.1#

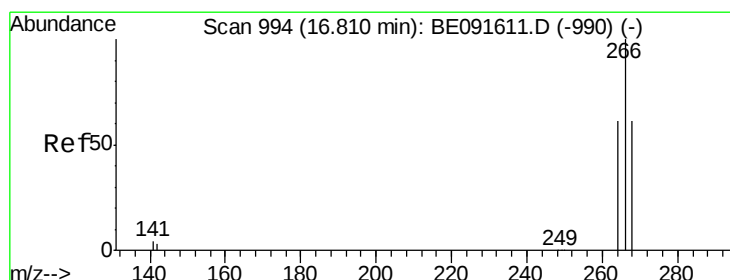
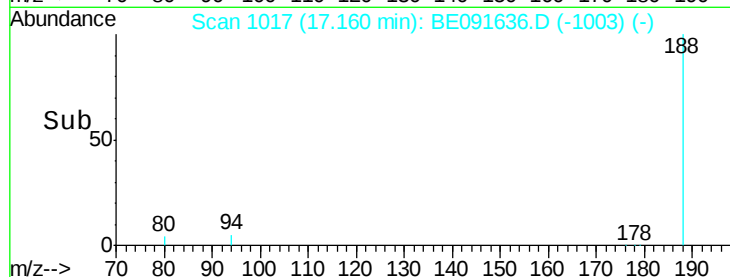
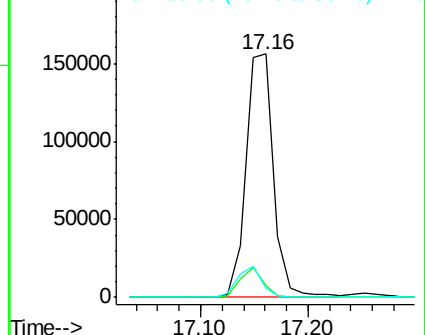
80 3.9 9.4 14.0#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#22

Pentachlorophenol

Concen: 0.27 ng

RT: 16.81 min Scan# 994

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

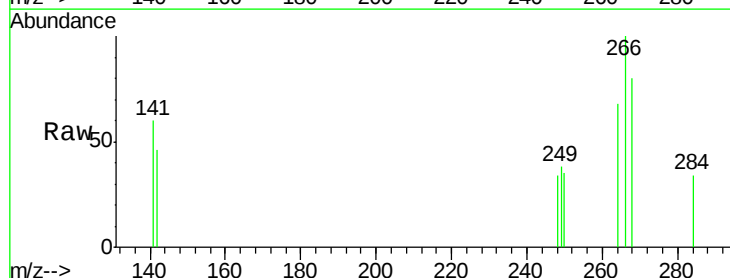
Tgt Ion:266 Resp: 267

Ion Ratio Lower Upper

266 100

268 80.3 58.2 87.2

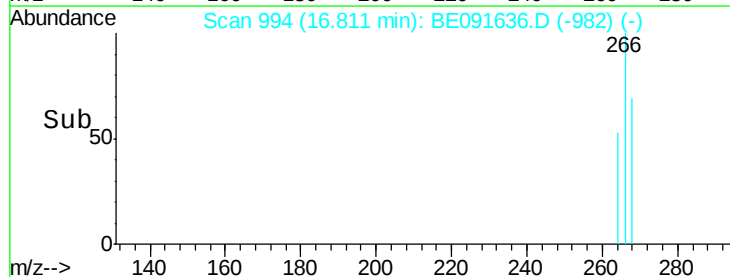
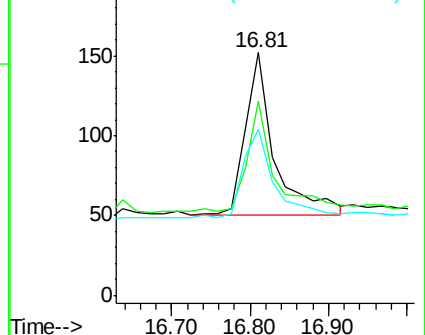
264 68.4 56.2 84.4

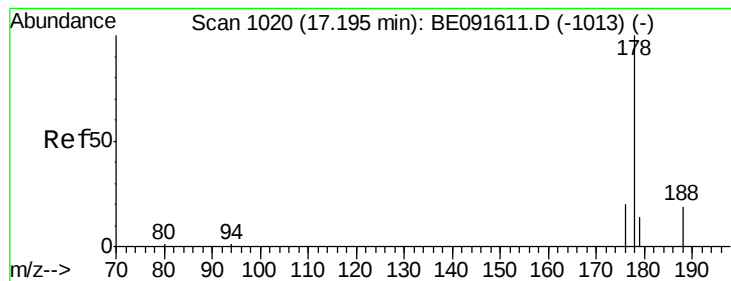


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#23

Phenanthrene

Concen: 0.03 ng

RT: 17.19 min Scan# 1020

Delta R.T. 0.00 min

Lab File: BE091636.D

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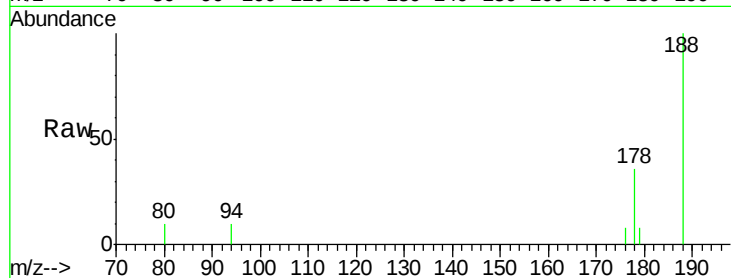
Tgt Ion:178 Resp: 1701

Ion Ratio Lower Upper

178 100

176 17.8 15.3 22.9

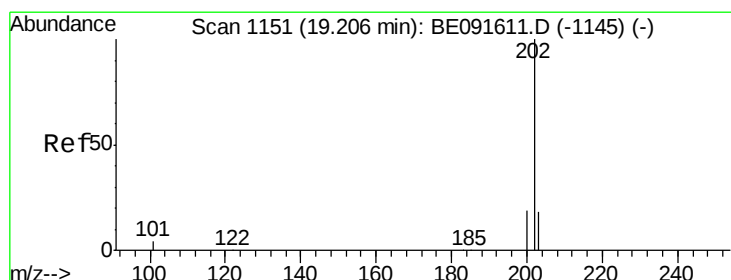
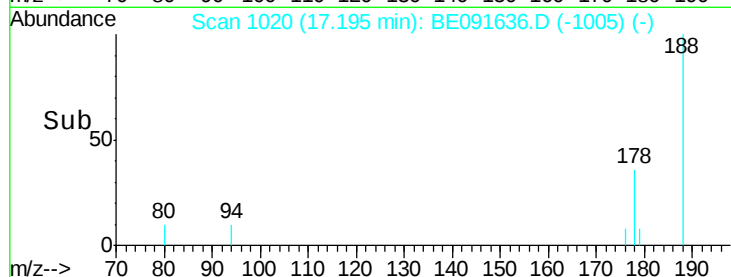
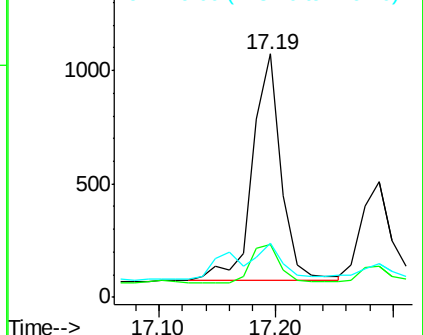
179 13.9 12.6 18.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene

Concen: 0.03 ng

RT: 19.21 min Scan# 1151

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

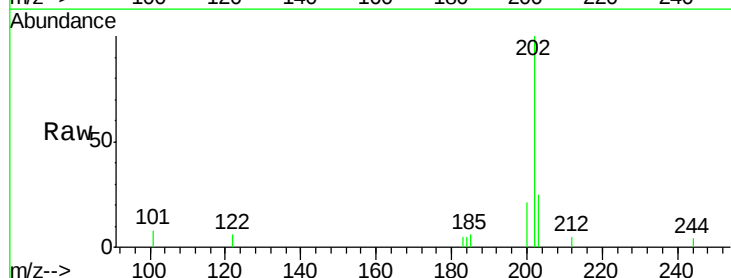
Tgt Ion:202 Resp: 2074

Ion Ratio Lower Upper

202 100

101 11.9 11.0 16.6

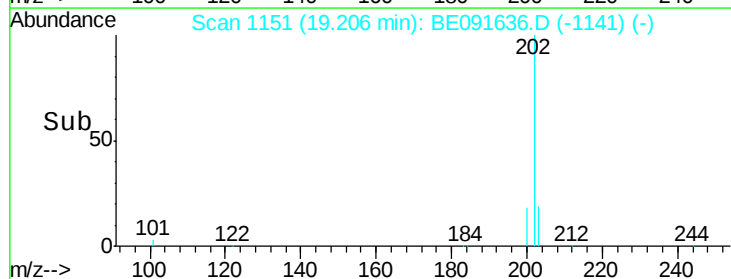
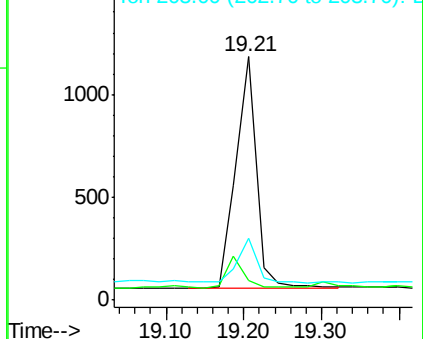
203 19.2 13.9 20.9

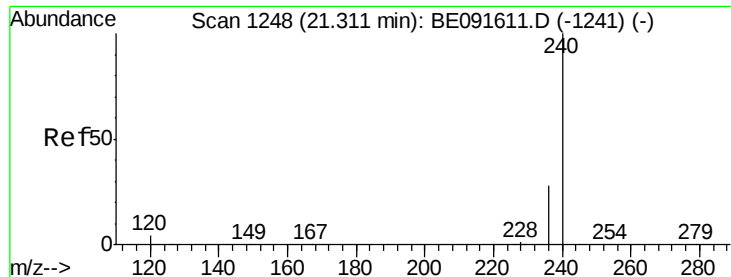


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

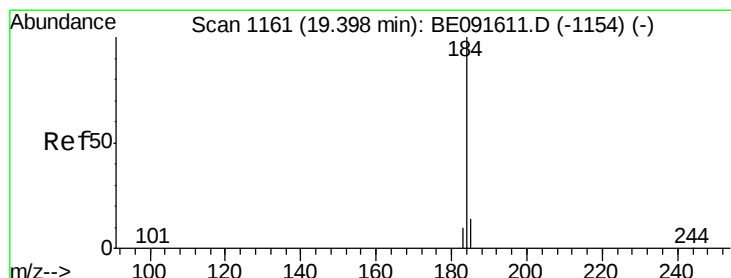
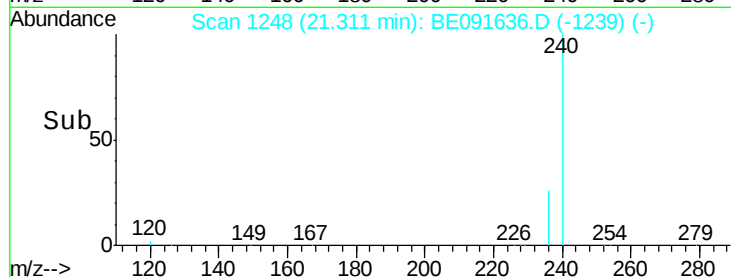
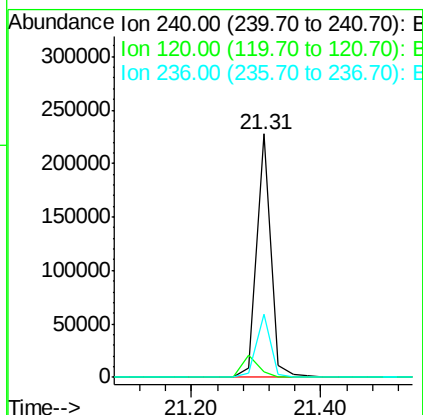
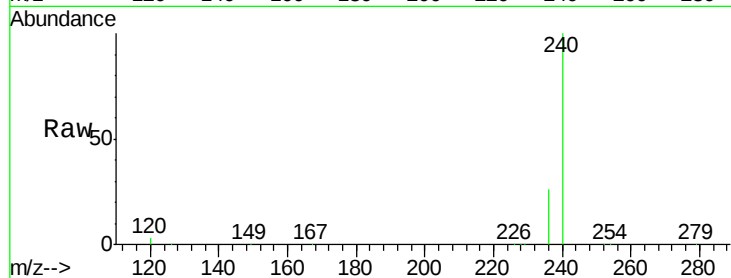




#26
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.31 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: BE091636.D
 Acq: 11 Apr 2016 19:56

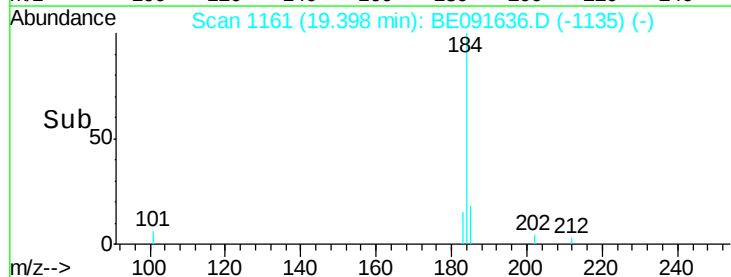
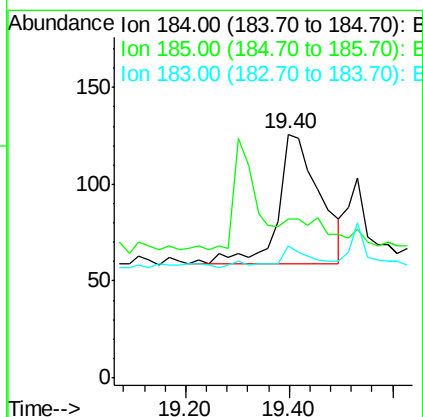
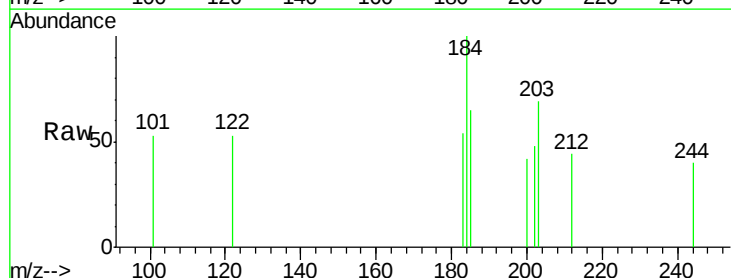
Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-160405

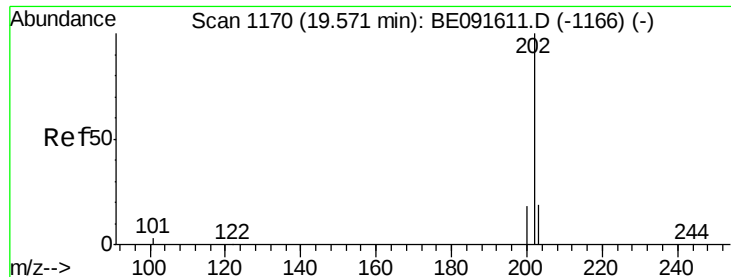
Tgt Ion: 240 Resp: 350588
 Ion Ratio Lower Upper
 240 100
 120 2.5 11.0 16.4#
 236 26.1 21.7 32.5



#27
 Benzidine
 Concen: 0.34 ng
 RT: 19.40 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: BE091636.D
 Acq: 11 Apr 2016 19:56

Tgt Ion: 184 Resp: 372
 Ion Ratio Lower Upper
 184 100
 185 65.1 22.3 33.5#
 183 54.0 16.4 24.6#





#28

Pyrene

Concen: 0.03 ng

RT: 19.55 min Scan# 1169

Delta R.T. -0.02 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405

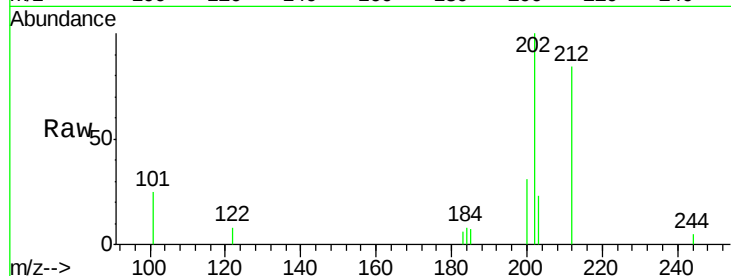
Tgt Ion: 202 Resp: 2159

Ion Ratio Lower Upper

202 100

200 21.7 16.8 25.2

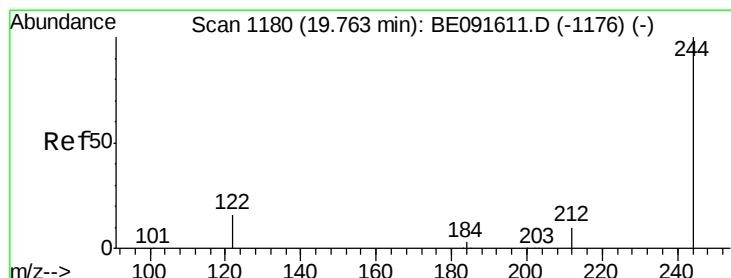
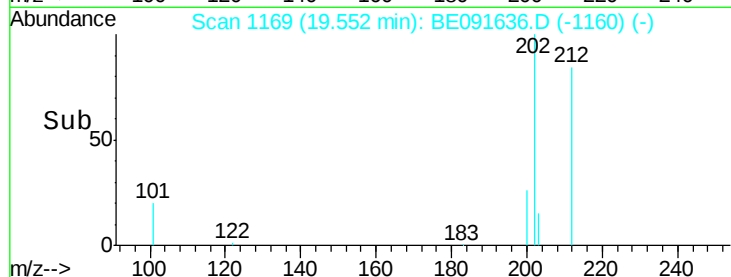
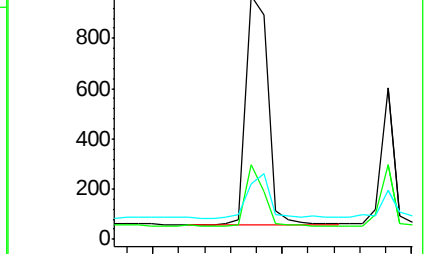
203 20.0 14.0 21.0



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#29

Terphenyl-d14

Concen: 4.69 ng

RT: 19.76 min Scan# 1180

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

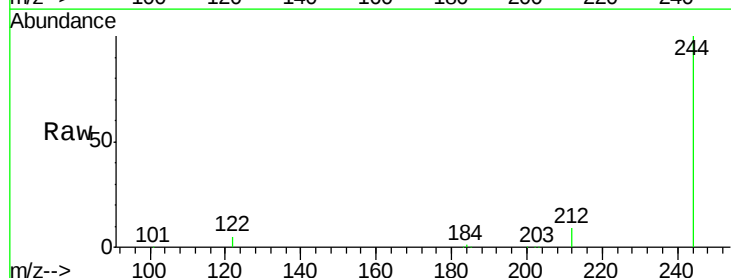
Tgt Ion: 244 Resp: 205278

Ion Ratio Lower Upper

244 100

212 8.7 6.9 10.3

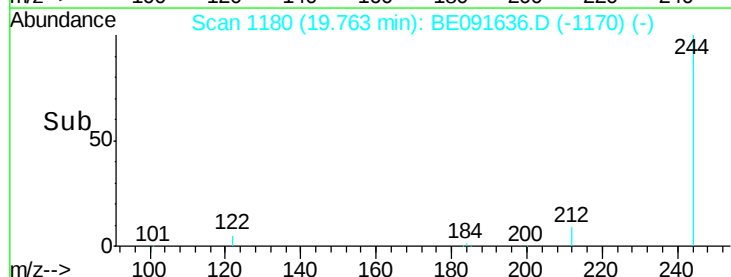
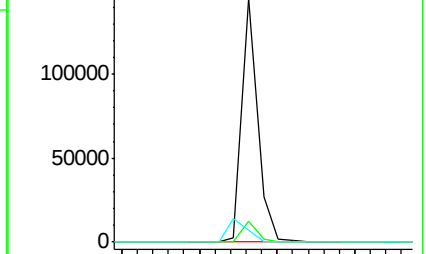
122 5.0 11.0 16.4#

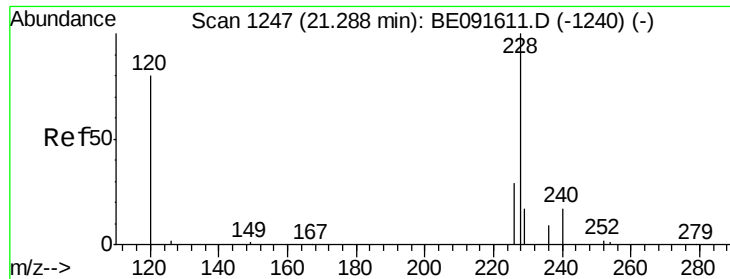


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#30

Benzo(a)anthracene

Concen: 0.09 ng

RT: 21.29 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405

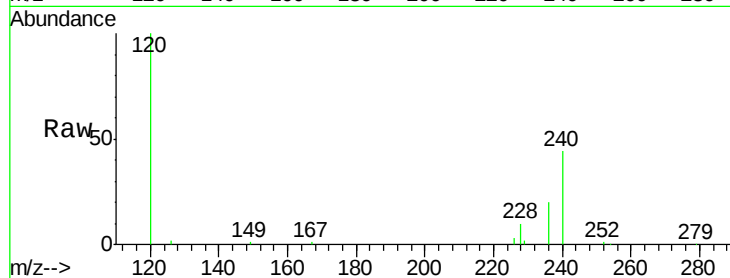
Tgt Ion:228 Resp: 7324

Ion Ratio Lower Upper

228 100

226 27.7 21.0 31.4

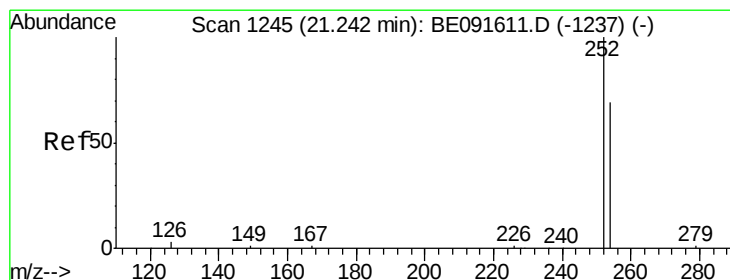
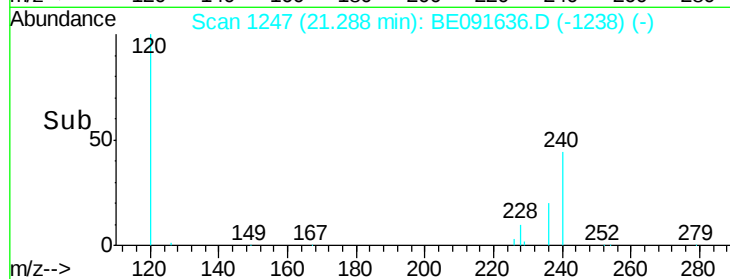
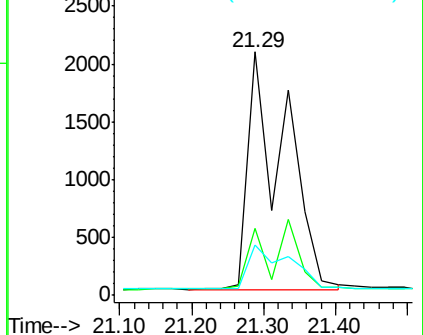
229 20.9 15.7 23.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

3,3'-Dichlorobenzidine

Concen: 0.17 ng

RT: 21.24 min Scan# 1245

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

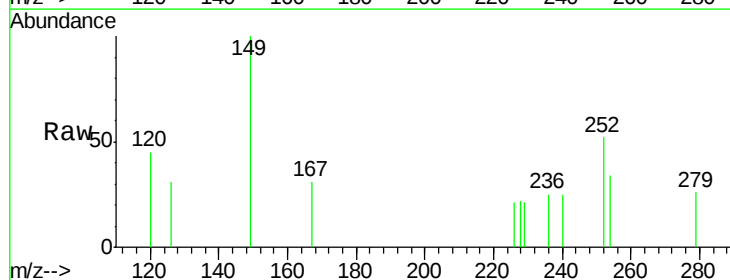
Tgt Ion:252 Resp: 433

Ion Ratio Lower Upper

252 100

254 65.5 51.1 76.7

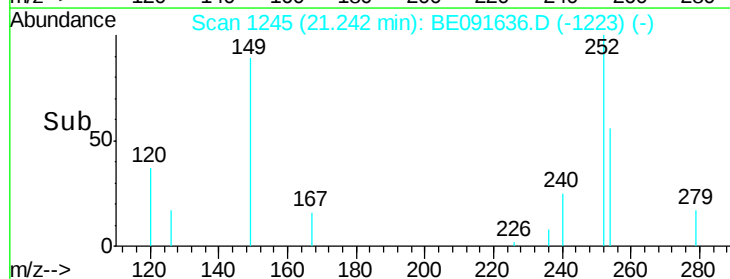
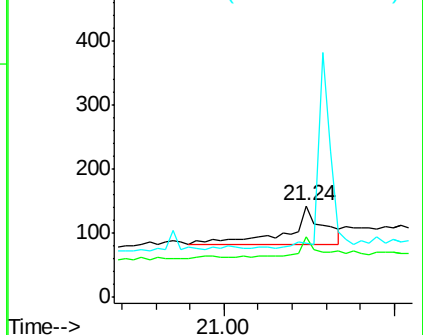
126 58.5 12.6 18.8#

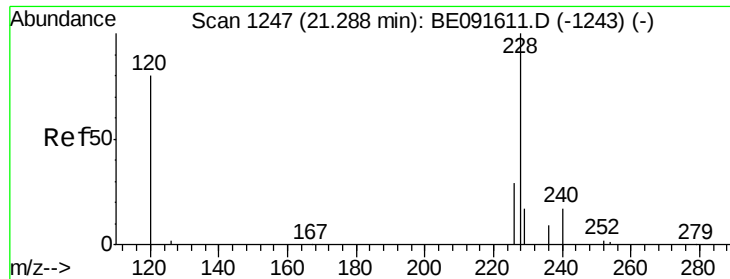


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#32

Chrysene

Concen: 0.10 ng

RT: 21.29 min Scan# 1247

Delta R.T. -0.07 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405

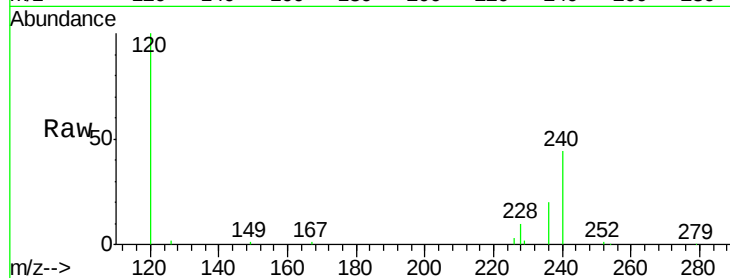
Tgt Ion:228 Resp: 7420

Ion Ratio Lower Upper

228 100

226 27.7 24.0 36.0

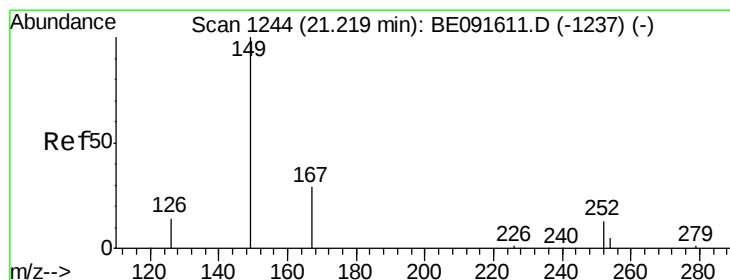
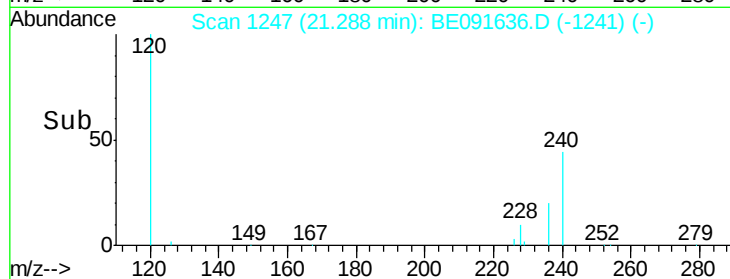
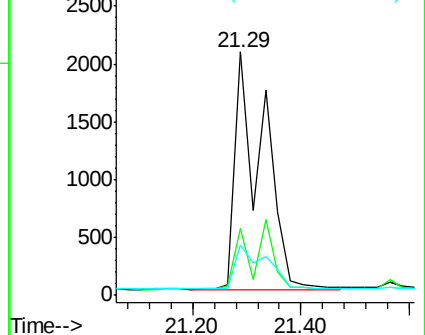
229 20.9 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.30 ng

RT: 21.22 min Scan# 1244

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

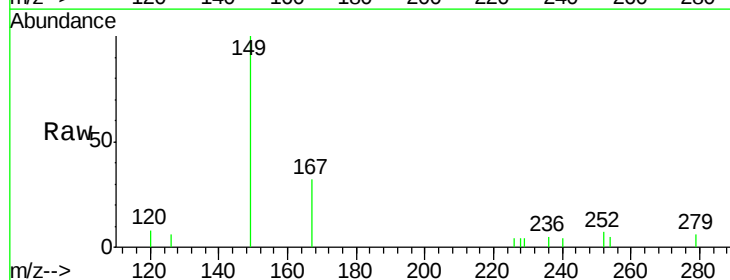
Tgt Ion:149 Resp: 2014

Ion Ratio Lower Upper

149 100

167 29.1 19.5 29.3

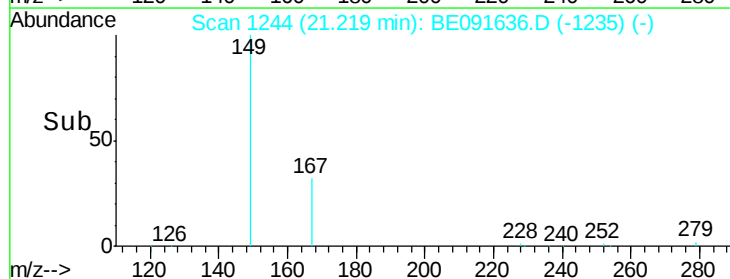
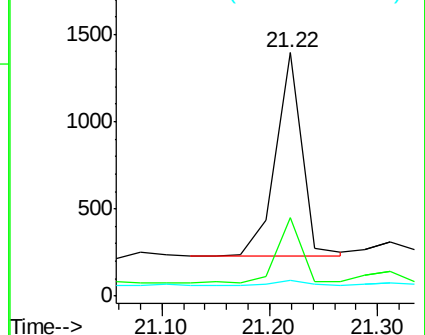
279 2.5 10.0 15.0#

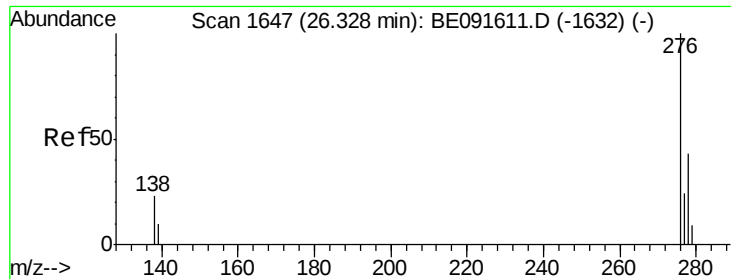


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

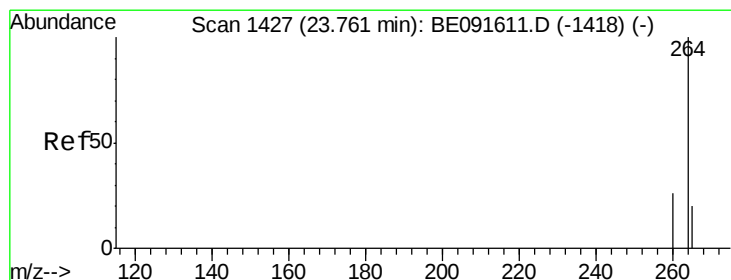
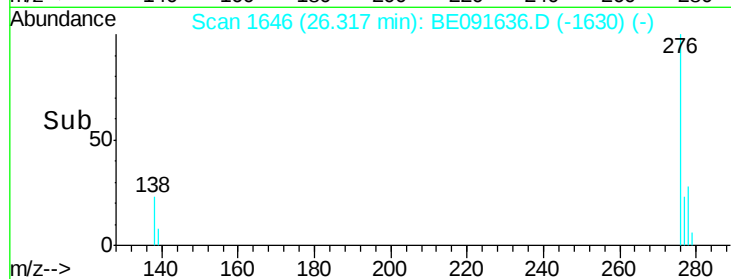
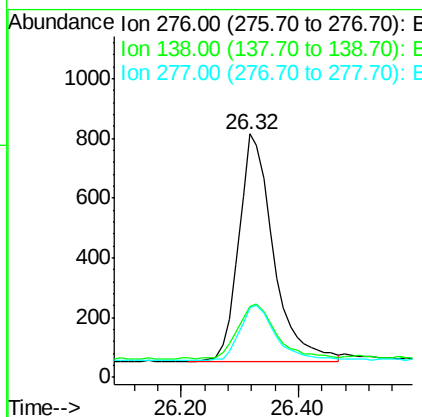
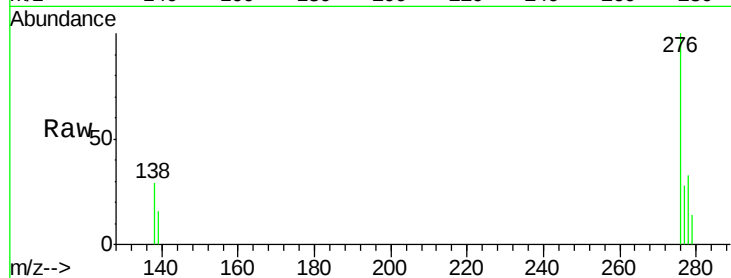




#34
 Indeno(1,2,3-cd)pyrene
 Concen: 0.04 ng
 RT: 26.32 min Scan# 1646
 Delta R.T. -0.01 min
 Lab File: BE091636.D
 Acq: 11 Apr 2016 19:56

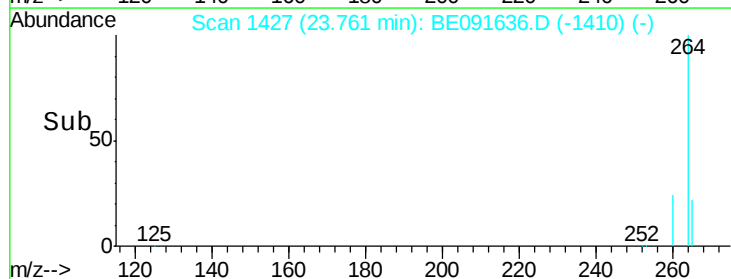
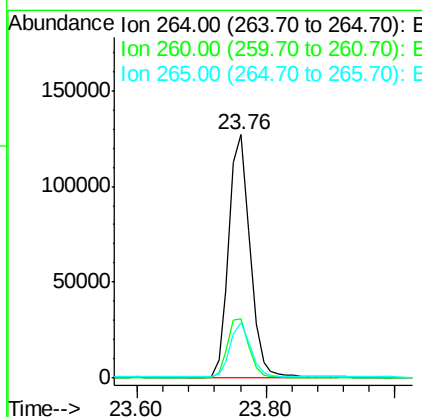
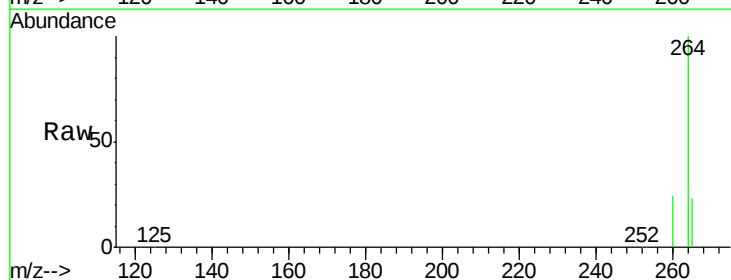
Instrument :
 BNA_E
 ClientSampleId :
 OUTFALL001-160405

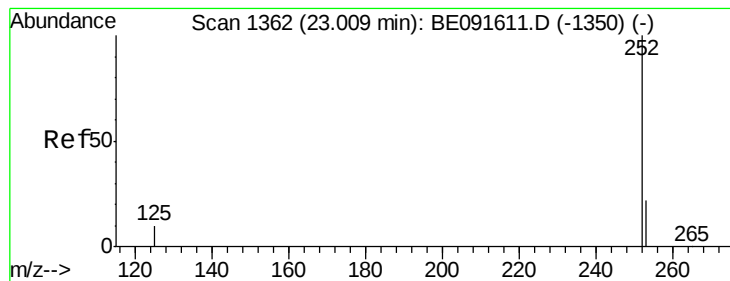
Tgt Ion: 276 Resp: 3129
 Ion Ratio Lower Upper
 276 100
 138 26.5 23.4 35.2
 277 25.1 19.8 29.8



#35
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 1427
 Delta R.T. 0.00 min
 Lab File: BE091636.D
 Acq: 11 Apr 2016 19:56

Tgt Ion: 264 Resp: 292463
 Ion Ratio Lower Upper
 264 100
 260 24.2 20.0 30.0
 265 22.8 17.5 26.3





#36

Benzo(b)fluoranthene

Concen: 0.05 ng

RT: 23.01 min Scan# 1362

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405

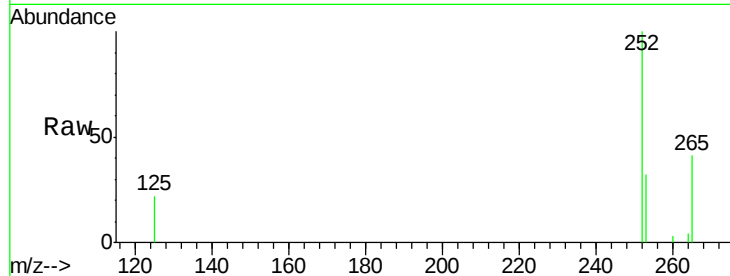
Tgt Ion:252 Resp: 3122

Ion Ratio Lower Upper

252 100

253 31.9 17.4 26.0#

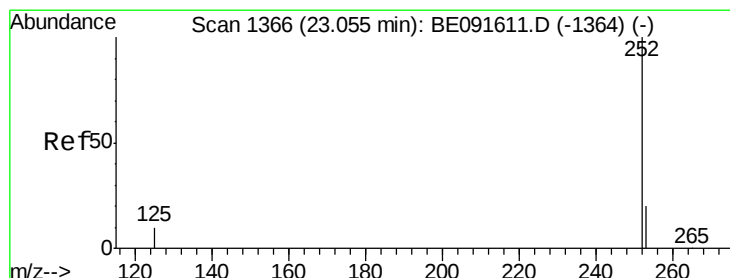
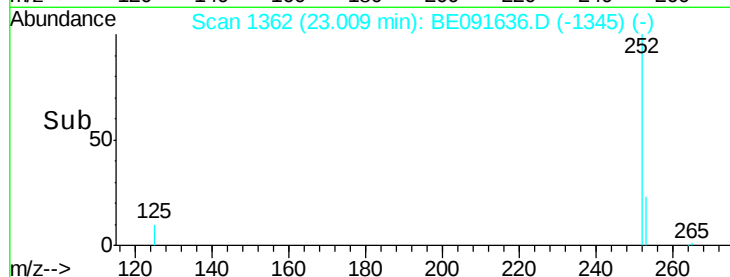
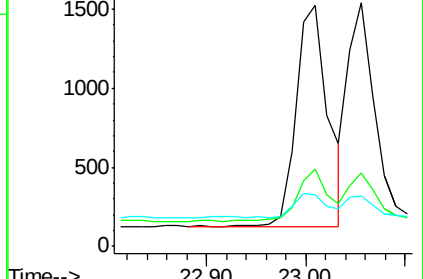
125 21.5 10.2 15.2#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#37

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 23.06 min Scan# 1366

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

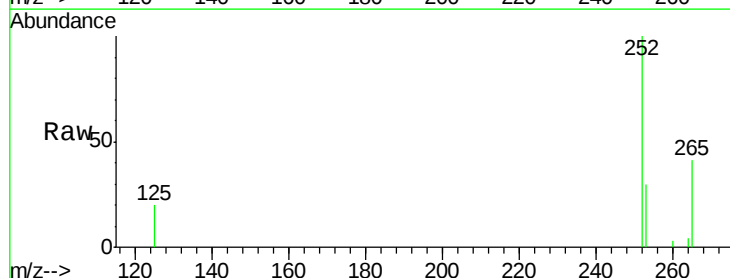
Tgt Ion:252 Resp: 2743

Ion Ratio Lower Upper

252 100

253 30.4 17.6 26.4#

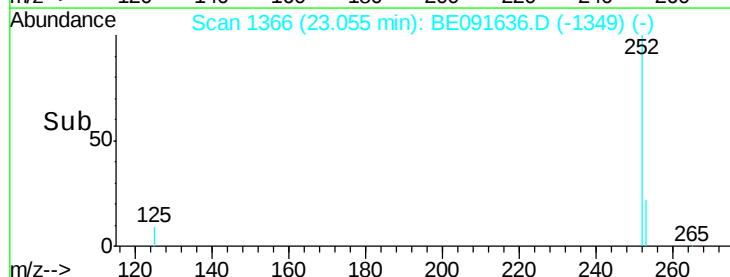
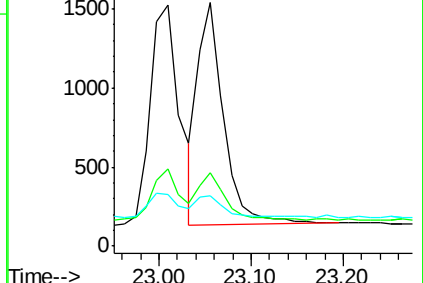
125 20.5 9.9 14.9#

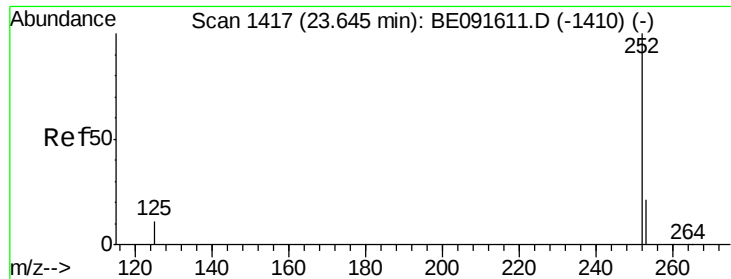


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#38

Benzo(a)pyrene

Concen: 0.03 ng

RT: 23.65 min Scan# 1417

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405

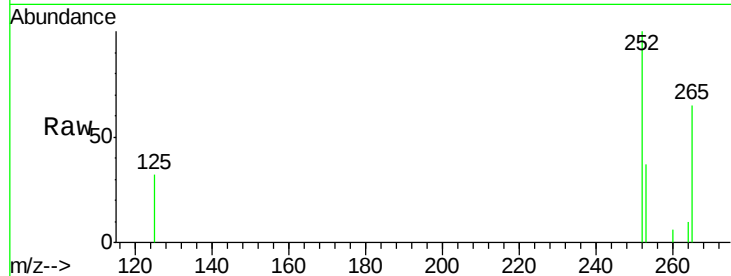
Tgt Ion: 252 Resp: 1959

Ion Ratio Lower Upper

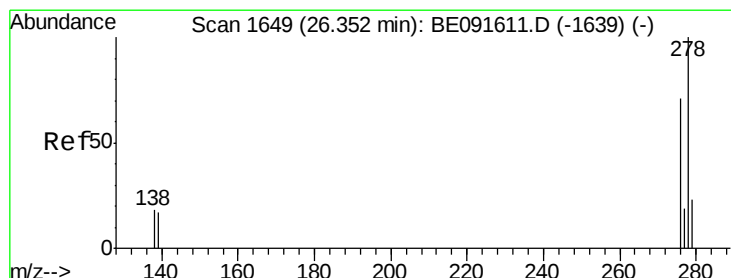
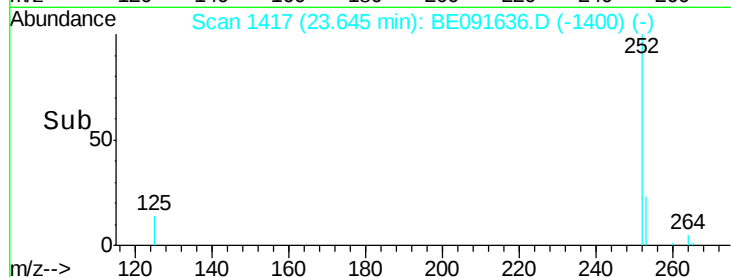
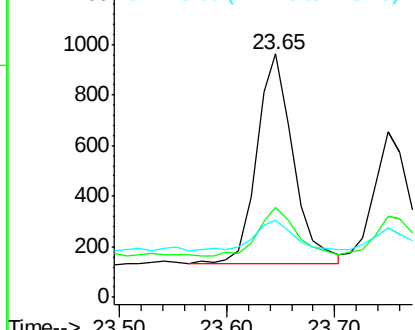
252 100

253 37.2 18.1 27.1#

125 31.9 11.0 16.4#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#39

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 26.35 min Scan# 1649

Delta R.T. 0.00 min

Lab File: BE091636.D

Acq: 11 Apr 2016 19:56

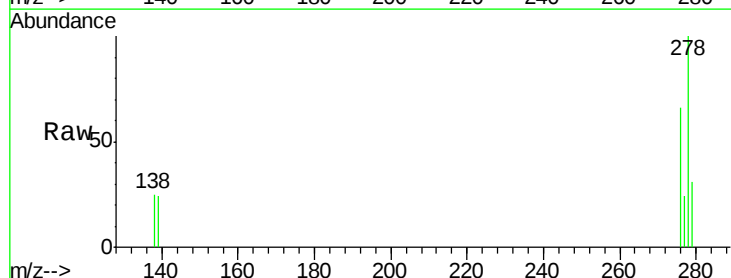
Tgt Ion: 278 Resp: 2736

Ion Ratio Lower Upper

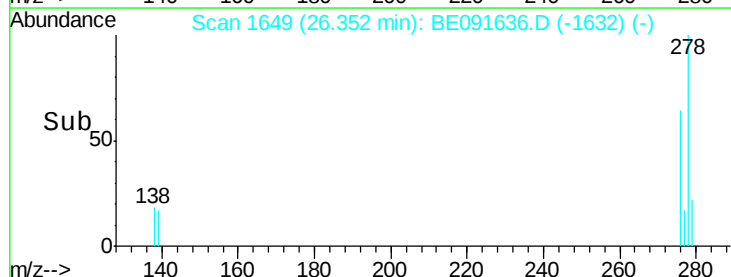
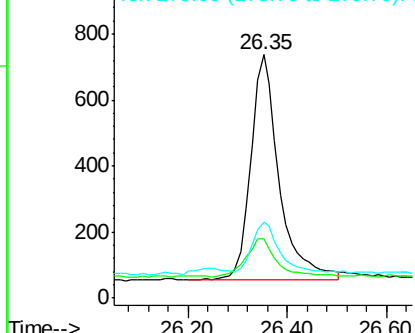
278 100

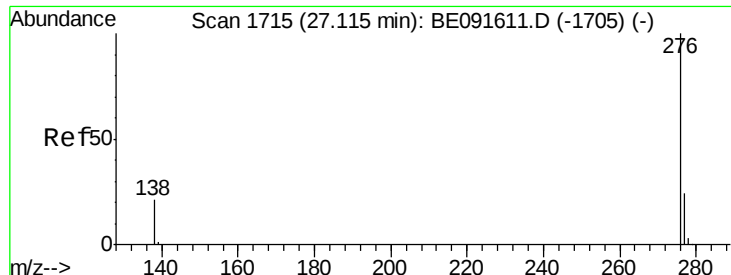
139 24.3 16.0 24.0#

279 31.2 19.4 29.2#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#40

Benzo(g,h,i)perylene

Concen: 0.04 ng

RT: 27.10 min Scan# 1714

Delta R.T. -0.01 min

Lab File: BE091636.D

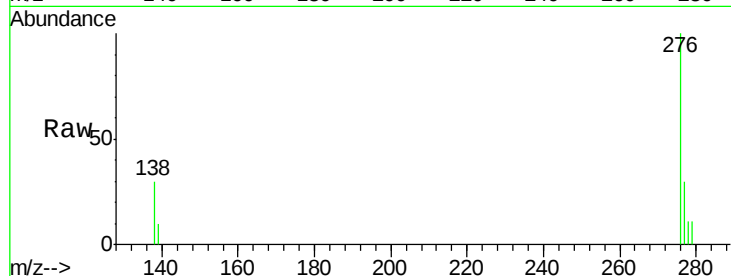
Acq: 11 Apr 2016 19:56

Instrument :

BNA_E

ClientSampleId :

OUTFALL001-160405



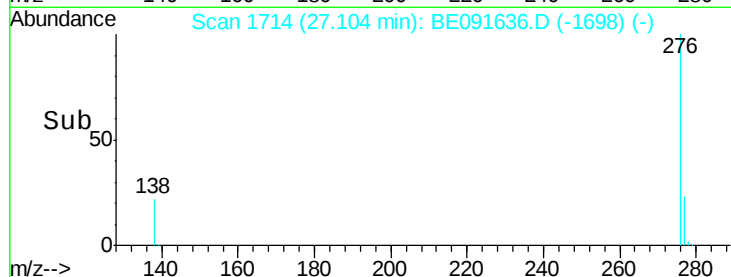
Tgt Ion: 276 Resp: 2807

Ion Ratio Lower Upper

276 100

277 29.6 18.6 28.0#

138 30.1 20.4 30.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

